## AMENDMENTS TO THE CLAIMS

- (Currently amended) A method of identifying a candidate <u>retinoblastoma (RB)</u> pathway modulating agent, said method comprising the steps of:
  - (a) providing an <u>a first</u> assay system comprising a <u>Chaperonin</u> containing T-complex 1 subunit 6A (CCT6) polypeptide or nucleic acid;
  - (b) contacting the <u>first</u> assay system with a test agent <del>under conditions</del> whereby, but for the presence of the test agent, the system provides a reference activity; and
  - (c) <u>determining the expression or activity of the CCT6 polypeptide or nucleic acid in the first assay system in the presence or absence of the test agent of step (b), wherein a change in the expression or activity of CCT6 polypeptide or nucleic acid in the presence of said test agent detecting a test agent biased activity of the assay system, wherein a difference between the test agent biased activity and the reference activity—identifies the test agent as a candidate RB pathway modulating agent:</u>
    - (d) confirming that the test agent of (b) is a candidate RB pathway modulating agent by providing a second assay system comprising a CCT6 polypeptide or nucleic acid, wherein the second assay system is able to measure the RB pathway;
  - (e) contacting the second assay system with the test agent of step (b); and
  - (f) measuring the RB pathway in the second assay system in the presence or absence of the test agent of step (b), wherein a change in the RB pathway in the presence of said test agent confirms the test agent as a candidate RB pathway modulating agent.
- (Currently amended) The method of claim 1, wherein the assay system comprises cultured cells that express the CCT6 polypeptide.

- (Currently amended) The method of claim 2, wherein the cultured cells additionally have defective RB function.
- (Currently amended) The method of claim 1<sub>s</sub> wherein the assay system includes a screening assay comprising a CCT6 polypeptide, and the candidate test agent is a small molecule modulator.
- (Currently amended) The method of claim 4, wherein the assay is a binding assay.
- 6. (Currently amended) The method of claim 1, wherein the assay system is selected from the group consisting of an apoptosis assay system, a cell proliferation assay system, an angiogenesis assay system, and a hypoxic induction assay system.
- (Currently amended) The method of claim 1, wherein the assay system includes a binding assay comprising a CCT6 polypeptide and the candidate test agent is an antibody.
- (Currently amended) The method of claim 1, wherein the assay system includes an expression assay comprising a CCT6 nucleic acid and the candidate test agent is a nucleic acid modulator.
- (Currently amended) The method of claim 8, wherein the nucleic acid modulator is an antisense oligomer.
- 10. (Currently amended) The method of claim 8, wherein the nucleic acid modulator

## is a phosphothioate morpholino oligomer (PMO).

- 11. (Currently amended) The method of claim 1 additionally comprising:
  - (d) (g) administering the candidate RB pathway modulating agent identified in step
  - (c) to a model system comprising cells defective in RB function and[[,,]] detecting
  - a phenotypic change in the model system that indicates that the RB function is restored
- (Currently amended) The method of claim 11, wherein the model system is a
  mouse model with defective RB function.
- 13. (Withdrawn) A method for modulating a RB pathway of a cell comprising contacting a cell defective in RB function with a candidate modulator that specifically binds to a CCT6 polypeptide, whereby RB function is restored.
- 14. (Withdrawn) The method of claim 13 wherein the candidate modulator is administered to a vertebrate animal predetermined to have a disease or disorder resulting from a defect in RB function.
- 15. (Withdrawn) The method of claim 13 wherein the candidate modulator is selected from the group consisting of an antibody and a small molecule.
- 16. (Canceled)
- (Currently amended) The method of claim 46-1, wherein the seeondary second assay system comprises cultured cells.
- 18. (Currently amended) The method of claim 46 1, wherein the secondary second assay

system comprises a non-human animal.

- (Currently amended) The method of claim 18, wherein the non-human animal mis-expresses a RB pathway gene.
- 20. (Withdrawn) A method of modulating RB pathway in a mammalian cell comprising contacting the cell with an agent that specifically binds a CCT6 polypeptide or nucleic acid.
- 21. (Withdrawn) The method of claim 20 wherein the agent is administered to a mammalian animal predetermined to have a pathology associated with the RB pathway
- 22. (Withdrawn) The method of claim 20 wherein the agent is a small molecule modulator, a nucleic acid modulator, or an antibody.
- 23. (Withdrawn) A method for diagnosing a disease in a patient comprising:
  - (a) obtaining a biological sample from the patient;
  - (a) contacting the sample with a probe for CCT6 expression;
  - (b) comparing results from step (b) with a control;
  - (c) determining whether step (c) indicates a likelihood of disease.
- 24. (Withdrawn) The method of claim 23 wherein said disease is cancer.
- 25. (Withdrawn) The method according to claim 24, wherein said cancer is a cancer as shown in Table I as having >25% expression level.